CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 78-46

NPDES NO. CA0037575

WASTE DISCHARGE REQUIREMENTS FOR:

NAPA SANITATION DISTRICT
AMERICAN CANYON COUNTY WATER DISTRICT
AND NAPA-AMERICAN CANYON WASTEWATER
MANAGEMENT AUTHORITY, NAPA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter Board) finds that:

1. Napa Sanitation District applied for revision of the waste discharge requirements and compliance time schedule in a letter dated February 15, 1978, and filed a Report of Waste Discharge on June 14, 1978.

2. Napa Sanitation District, American Canyon County Water District and Napa-American Canyon Wastewater Management Authority (hereinafter dischargers) discharge mixed domestic and industrial wastewater containing pollutants into the Napa River, a water of the United States. The present point of discharge is adjacent to Ratto Landing. When the physical-chemical treatment facilities become operational, the discharge will be through a new outfall, adjacent to those facilities, at 38° 13' 45" N latitude and 122° 17' 00" W longitude.

3. Most of the waste from Napa Sanitation District sewer system is treated in primary clarifiers and trickling filters, then conveyed to 342 acres of oxidation ponds. Some waste is discharged directly to the ponds. Waste from American Canyon County Water District sewer system is treated in 16 acres of oxidation ponds, then conveyed to the 342 acres of ponds in Napa. Pond effluent will be treated in a physical-chemical plant with a multi-media filter before discharge to the river.

4. The dischargers report:

Average Flow: 6.6 mgd
Design Flow: 15.4 mgd

Constituents of Present Discharge	Milligrams per liter	Pounds per day
BOD	39	1,859
Suspended Matter	154	6,743
Oil and Grease	14.1	613
Total Chromium	0.15	3.44

5. A Water Quality Control Plan for the San Francisco Bay Basin was adopted by the Board in April 1975. The Basin Plan contains water quality objectives for the Napa River and San Francisco Bay.

6. The beneficial uses of the tidal portions of the Napa River in the vicinity of this discharge include:

   a. Recreation
   b. Fish migration and habitat
   c. Fish preservation and enhancement of fish, wildlife, and other aquatic biota
   d. Esthetic enjoyment
   e. Navigation

7. The dischargers are presently governed by waste discharge requirements in Resolution No. 480 and Order Nos. 74-113, 74-192, 76-64, and 76-108 adopted on July 18, 1963, October 15, 1974, December 17, 1974, June 15, 1976, and October 19, 1976, respectively, which allow discharge to the Napa River.

8. Napa Sanitation District has stated that it plans to require tanneries to reduce the chromium in their discharge to the sewer by more than 50% over the next four years and that the new physical-chemical facilities will increase chromium removal at the treatment plant. The district reports that these reductions in chromium will make its effect on receiving waters insignificant.

9. Effluent limitations, toxic and pretreatment effluent standards established pursuant to Sections 208(b), 301, 304, and 307 of the Federal Water Pollution Control Act are applicable to the discharge.

10. The Board has notified the dischargers and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.

11. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

12. This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Water Pollution Control Act, or amendments thereto, and shall take effect at the end of ten days from date of hearing provided the Regional Administrator, U. S. Environmental Protection Agency, has no objections.

13. As this project approval is an NPDES permit, this Board, pursuant to Water Code Section 13389, is not required to comply with the provisions of Chapter 3 of Division 13 of the Public Resources Code (California Environmental Quality Act).

IT IS THEREBY ORDERED, pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder, and to the provision of the Federal Water Pollution Control Act, as amended, and regulations and guidelines adopted thereunder, that the dischargers shall comply with the following:

A. Effluent Limitations

1. The discharge of an effluent containing constituents in excess of the following limits is prohibited:

Constituents	Units	30-Day Average	7-Day Average	Maximum Daily	Instantaneous Maximum
a. Settleable Matter	ml/l-hr	0.1	-	-	0.2
b. BOD	lbs/day	2,187	-	4,374	-
	(kg/day)	991	-	1,981	-
	mg/l	5	7.5	10	-
c. Suspended Solids	lbs/day	6,550	-	13,100	-
	(kg/day)	2,967	-	5,934	-
	mg/l	15	22.5	30	-
d. Grease & Oil	lbs/day	4,374	-	8,747	-
	(kg/day)	1,981	-	3,963	-
	mg/l	10	-	20	-
e. Chlorine Residual	mg/l	-	-	-	0.0
f. Turbidity	JTU	-	-	-	10

2. Prior to September 1, 1978, the following interim effluent limitations shall apply:

   The quality of the waste discharged to the Napa River shall be maintained within the following limits:

   a. 5-day, 20°C, BOD - 60 mg/l, (25,560 lbs/day) 30 Day Average, Maximum

   b. The effluent discharged to Napa River shall be so disinfected that median MPN of coliform organisms shall not exceed 1,000 per 100 ml and no single sample shall contain a MPN of coliform organisms in excess of 10,000 per 100 ml; median values shall be calculated from laboratory results obtained from samples collected during the preceding 10 weeks; at least three samples shall be collected per week.

3. The discharge shall not have pH of less than 6.5 nor greater than 8.5.

4. In any representative set of samples, the waste as discharged shall meet the following limit of quality:

TOXICITY:

The survival of acceptable test organisms in 96 hour bioassays of the effluent shall achieve a median of 90% survival for three consecutive samples and a 90 percentile value of not less than 70% survival for 10 consecutive samples.

5. Representative samples of the effluent shall not exceed the following limits more than the percentage of the time indicated: (a)

Constituent	Unit of Measurement	50% of time	10% of time
Arsenic	mg/l (kg/day)	0.01 (0.582)	0.02 (1.165)
Cadmium	mg/l (kg/day)	0.02 (1.165)	0.03 (1.748)
Copper	mg/l (kg/day)	0.2 (11.651)	0.3 (17.477)
Lead	mg/l (kg/day)	0.1 (5.826)	0.2 (11.652)
Mercury	mg/l (kg/day)	0.001 (0.058)	0.002 (0.116)
Nickel	mg/l (kg/day)	0.1 (5.826)	0.2 (11.652)
Silver	mg/l (kg/day)	0.02 (1.165)	0.04 (2.330)
Zinc	mg/l (kg/day)	0.3 (17.477)	0.5 (29.129)
Cyanide	mg/l (kg/day)	0.1(5.826)	0.2 (11.652)
Phenolic Compounds	mg/l (kg/day)	0.5 (29.129)	1.0 (58.258)
Total Identifiable Chlorinated Hydrocarbons	mg/l (kg/day) (b)	0.002 (0.116)	0.004 (0.233)

(a) These limits are intended to be achieved through secondary treatment, source control, and application of pretreatment standards.

(b) Total Identifiable Chlorinated Hydrocarbons shall be measured by summing the individual concentrations of DDT, DDD, DDE, aldrin, BHC, chlordane, endrin, heptachlor, lindane, dieldrin, polychlorinated biphenyls, and other identifiable chlorinated hydrocarbons.

6. Representative samples of the effluent shall not exceed limits for total chromium which can be achieved through optimum operation of the dischargers' treatment plant, including the physical-chemical facilities, and all reasonable source control and pretreatment prior to discharge into the sewer.

7. After September 1, 1982, a new numerical limit may be established for effluent chromium which can be achieved through optimum operation of the dischargers' treatment plant and with all reasonable source control and pretreatment prior to discharge to the sewer. Until then and, commencing on January 1, 1979 and on July 1, 1982, the following requirements shall apply:

a. Requirement from January 1, 1979 through July 1, 1982:

	50% of time	10% of time
Total chromium	0.04 mg/l 2.330 kg/day	0.10 mg/l 5.826 kg/day

b. Requirement after July 1, 1982:

	50% of time	10% of time
Total Chromium	0.02 mg/l	0.05 mg/l
	1.165 kg/day	2.913 kg/day

8. The arithmetic mean of values for BOD and Suspended Solids in effluent samples collected in a period of 30 consecutive days shall not exceed 15 percent of the arithmetic mean of respective values for influent samples collected at approximately the same times during the same period (i.e., 85 percent removal).

9. At some point in the treatment process the waste shall not exceed a median MPN of coliform organisms of 2.2/100 ml as determined from the results of the previous consecutive 7 days for which analyses have been completed.

B. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in water of the United States at any place.

   a. Floating, suspended, or deposited macroscopic particulate matter or foam;

   b. Bottom deposits or aquatic growths;

   c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;

   d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;

   e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State in any place within one foot of the water surface:

a.	Dissolved oxygen	5.0 mg/l minimum. Annual median - 80% saturation. When natural factors cause lesser concentration(s) than those specified above, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.
b.	pH	Variation from natural ambient pH by more than 0.2 pH units.
c.	Un-ionized Ammonia as N	0.025 mg/l, Annual Median 0.4 mg/l, Maximum

3. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board or the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standared are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

C. Discharge Prohibitions

1. The average dry weather flow shall not exceed 15.4 mgd. Average shall be determined over three consecutive months each year.

2. There shall be no bypass or overflow of untreated wastewater to waters of the state, either at the treatment plant or from the collection system.

3. Discharge at any point at which the wastewater does not receive an initial dilution of at least 10:1 is prohibited.

   Exceptions to the above will be considered for certain wet weather discharges and other discharges having a high initial dilution where an inordinate burden would be placed on the discharger relative to beneficial uses protected and when an equivalent level of environmental protection can be achieved by alternate means. Exceptions will also be considered where a discharge is approved as part of a reclamation project or where it can be demonstrated that environmental benefits will be derived as a result of the discharge.

D. Provisions

1. The discharger shall comply with the following time schedules to assure compliance with the specifications of this Order:

   a. Compliance with Effluent Limitations A.1.b., A.1.c., A.1.d., A.1.e., A.1.f., A.3., A.4., A.7., A.8., and Receiving Water Limitations B.1.a. and B.1.c.:

Task	Completion Date	Report of Compliance Due
(1) Complete Construction	July 1, 1978	July 15, 1978
(2) Full Compliance	September 1, 1978	September 15, 1978

   b. Compliance with Prohibition C.3.:

Task	Completion Date	Report of Compliance Due
(1) Submit Program for Compliance or Schedule and Description of a two-year Intensive Biological Study in the Lower Napa River which are acceptable to the Executive Officer	December 1, 1978	December 15, 1978
(2) Submit Program for compliance or demonstrate that an exception is warranted	June 1, 1981	June 15, 1981

c. Compliance with Effluent Limitation A.5.:

Task	Completion Date	Report of Compliance Due
(1) Investigate and report on status of program for Source Control and program for Compliance with Pre-treatment Standards including status of Compliance with Time Schedules for All Industries	July 1, 1978	July 15, 1978
(2) Full Compliance with Program for Source Control and Compliance with Pre-treatment Standards	August 1, 1978	August 15, 1978
(3) Documentation of Compliance with Effluent Limitations	September 1, 1978	September 15, 1978

d. Compliance with Effluent Limitation A.6 :

Task	Completion Date	Report of Compliance Due
(1) Complete construction of dischargers treatment plant improvements	July 1, 1978	July 15, 1978
(2) Submit schedule of actions, which is acceptable to the Executive Officer, to have each user (including tanneries) implement all reasonable source control and pretreatment and, thereby, minimize chromium in discharge to sewer	July 1, 1978	

Task	Completion Date	Report of Compliance Due
(3) Fully implement all reasonable source control and pretreatment and minimize chromium in discharge to the sewer in accord with the acceptable schedules of actions described in (2) above	Forthwith	
(4) Determine the additional reduction in chromium beyond interim Effluent Limitation A.7. that can be achieved with all reasonable source control and pretreatment prior to discharge to the sewer and with optimum operations of dischargers' treatment plant	September 1, 1982	September 15, 1982
(5) Full compliance	September 1, 1982	September 15, 1982

e. Compliance with prohibition C.2.:

Task	Completion Date	Report of Compliance Due
Full Compliance	March 1, 1979	March 15, 1979

f. Compliance with all other effluent and receiving water limitations, prohibitions, and provisions of this Order immediately upon adoption.

2. To determine whether the discharge complies with the following condition for exception from Discharge Prohibition C.3., "where an inordinate burden would be placed on the discharger relative to beneficial uses protected and when an equivalent level of environmental protection can be achieved by alternate means;" the discharger shall submit the following receiving water impact study:

A two-year intensive biological study in the lower Napa River to commence after completion of the new treatment facilities. The impact on the receiving water due to new treatment facilities shall be evaluated.

3. The discharger shall submit to the Executive Officer a contingency plan for the continuous operation of facilities for the collection, treatment and disposal of waste pursuant to Regional Board Resolution No. 74-10 by September 13, 1978.

4. The discharger shall submit a report to the Board on or before each compliance report date, detailing his compliance or noncompliance with the specific schedule date and task. If noncompliance is being reported, the reasons for such noncompliance shall be stated, plus an estimate of the date when the discharger will be in compliance. The discharger shall notify the Board by letter when he has returned to compliance with the time schedule.

5. This Board's Resolution No. 480 and Order Nos. 74-113, 74-192, 76-64, and 76-108 are hereby rescinded.

6. This Order includes all items under Section A. Standard Provisions, items 1, 2, 4, and 5 under Section B. Reporting Requirements; and all items under Section C. Definitions of the attached "Standard Provisions, Reporting Requirements and Definitions," dated April 1977.

7. The dischargers shall have and enforce a source control program approved by the Executive Officer which contains at least the powers and authorities contained in the State Water Resources Control Board's "Guidelines for Determining the Effectiveness of Local Source Control Programs."

   This Regional Board will consider amendment of the Effluent Limitation A.5., if the discharger demonstrates that compliance cannot be achieved through a program acceptable to the Board for source control and pretreatment standards.

8. This Order expires on June 1, 1983, and the dischargers must file a Report of Waste Discharge in accordance with Title 23, California Administrative Code not later than 180 days in advance of such date as application for issuance of new waste discharge requirements.

9. This Order becomes effective on July 6, 1978. If the required filing fee is not received by July 6, 1978, this Order will expire on July 7, 1978.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on June 20, 1978.

FRED H. DIERKER
Executive Officer

Attachments:
Standard Provisions, Reporting
Requirements and Definitions 4/77
Resolution No. 74-10

BE IT FURTHER RESOLVED, pursuant to Sections 13267 and 13268, dischargers with NPDES Permits now in effect are required to develop and submit a contingency plan as described above, by December 1, 1974.

BE IT FURTHER RESOLVED, that the discharge of pollutants in violation of an NPDES Permit where a discharger has failed to develop and implement a contingency plan as described above will be the basis for considering the discharge a willful and negligent violation of the Permit and action pursuant to Section 13387 of the California Water Code.

BE IT FURTHER RESOLVED, that it is the intent of the Regional Board to eventually require all waste dischargers in the San Francisco Bay Region to develop contingency plans, and those not specifically covered by this resolution are urged to voluntarily develop and implement plans including the above-named elements.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of a Resolution adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on July 16, 1974.

FRED H. DIERKER
Executive Officer

R 74-10

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

Napa Sanitation District

American Canyon County Water District

and Napa-American Canyon County Wastewater Authority

NPDES NO. CA 0037575

ORDER NO. 78-46

CONSISTS OF

PART A , dated 1/78

AND

PART B , revised September 1, 1978
revised March 22, 1982

PART B - NAPA SANITATION DISTRICT, AMERICAN CANYON COUNTY WATER DISTRICT AND NAPA-AMERICAN CANYON COUNTY WASTEWATER AUTHORITY

I. DESCRIPTION OF SAMPLING STATIONS

A. INFLUENT

Station	Description
A-001	At any point in the American Canyon County Water District treatment facilities' headworks at which all waste tributary to the system is present and preceding any phase of treatment.
A-002	At any point in the Napa Sanitation District treatment facilities' headworks at which all waste tributary to the system is present and preceding any phase of treatment.

B. EFFLUENT

Station	Description
E-001	At any point in the outfall from the treatment facilities between the point of discharge and the point at which all waste tributary to that outfall is present. (May be the same as E-001-D).
E-001-D	At any point in the disinfection facilities for Waste E-001 at which point adequate contact with the disinfectant is assured.

C. RECEIVING WATERS

Station	Description
CC-1	At a point in the Napa River, located by the Southern Crossing Bridge approximately 2,000 feet upstream from the point of discharge from outfall E-001.
CC-2	In the Napa River, the area located within a 100 foot radius from the point of discharge from the bypass facilities for the NSD pump station near Soscol Creek.
CC-3	In the Napa River, the area immediately above the diffuser system for outfall E-001.
CC-4	At a point in the Napa River, located approximately 1,000 feet down from the point of discharge for outfall E-001.

CC-5	At a point in the Napa River, located approximately 2,000 feet down from the point of discharge from outfall E-001.

D. GROUND WATERS

Station	Description
G-1 & 2	Wells, located within 1,000 feet from the perimeter levee of the waste ponding area, on District property easterly of the Napa River.
	(Note: A sketch showing the location of each well, the assigned designations and property owner to accompany each report.)

E. LAND OBSERVATIONS

Station	Description
P-A-1 through P-A-'n'	Located at the corners and midpoints of the perimeter fencelines around the American Canyon County Water District treatment facilities.
P-N-1 through P-N-'n'	Located at the corners and midpoints of the perimeter fencelines around the Napa Sanitation District treatment facilities at Imola Avenue.
P-NPC-1 through P-NPC-'n'	Located at the corners and midpoints of the perimeter boundaries around the Napa Sanitation District Physical-Chemical treatment facilities.
L-1 through L-'n'	Located at corners and midpoints of the perimeter levees of Rattos Landing Ponding Area.
	(Note: A sketch showing the location of these stations and the assigned designations and appurtenances to accompany each report).

F. OVERFLOWS AND BYPASSES

Station	Description
O-1 through O-'n'	Bypass or overflows from manholes, pump stations, or collection system.
	(Note: Initial SMP report to include map and description of each known bypass or overflow location.)
	Reporting - Shall be submitted monthly and include date, time, and period of each overflow or bypass.

II. SCHEDULE OF SAMPLING, ANALYSIS AND OBSERVATIONS

The schedule of sampling, analysis and observations shall be that given as Table I.

III. MODIFICATION OF PART 'A' DATED 1/78

Exclusion: Paragraph C-5c.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 78-46.

2. Is effective on the date shown below.

3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be order by the Executive Officer.

FRED H. DIERKER
Executive Officer

Attachment:
Table 1(2 pages)
Notes for Table I

Effective Date 3/22/82

SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	All A Sta		E-001		E-001-D			CC-3		All other cc sta	All P&L sta	All G Sta	
TYPE OF SAMPLE	C-24	G	C-24	Cont	G	C-24	Cont	G		G	O	DI	
Flow Rate (mgd)	D			D									
BOD, 5-day, 20° C, or COD (mg/l & kg/day)	5/W		5/W										
Chlorine Residual & Dosage (mg/l & kg/day)					2H	or	cont						
Settleable Matter (ml/l-hr. & cu. ft./day)		D											
Total Suspended Matter (mg/l & kg/day)	5/W		5/W										
Oil & Grease (mg/l & kg/day) (2)			M										
Coliform (Total or Fecal) (MPN/100 ml) per req't					3/W			M				3M	
Fish Toxicity, 96-hr. TL_{50} % Survival in undiluted waste						M							
Ammonia Nitrogen (mg/l & kg/day)			3M					3M				3M	
Nitrate Nitrogen (mg/l & kg/day)			3M					3M				3M	
Nitrite Nitrogen (mg/l & kg/day)			3M					3M				3M	
Total Organic Nitrogen (mg/l & kg/day)			3M					3M				3M	
Total Phosphate (mg/l & kg/day)			3M					3M				3M	
Turbidity (Jackson Turbidity Units)			2/M					M		M			
pH (units)		D						M		M		3M	
Dissolved Oxygen (mg/l and % Saturation)		D						M		M			
Temperature (°C)		D						M		M			
Apparent Color (color units)								M		M			
Chlorides (mg/l)			M									3M	
Sulfides (if DO < 5.0 mg/l) Total & Dissolved (mg/l)		2/W						M		M			
Arsenic (mg/l & kg/day)			2/Y										
Cadmium (mg/l & kg/day)			2/Y										
Chromium, Total (mg/l & kg/day)			M										
Copper (mg/l & kg/day)			2/Y										
Cyanide (mg/l & kg/day)			2/Y										
Silver (mg/l & kg/day			2/Y										
Lead (mg/l & kg/day)			2/Y										

TABLE I (continued)
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	A	E-001			E-001-D			CC-3		All other cc sta	All D&L Sta	All G Sta	O Sta
TYPE OF SAMPLE	C-24	G	C-24	Cont	G	C-24	Cont	G		G	O	DI	O
Mercury (mg/l & kg/day)			2/Y										
Nickel (mg/l & kg/day)			2/Y										
Zinc (mg/l & kg/day)			2/Y										
PHENOLIC COMPOUNDS (mg/l & kg/day)			2/Y										
All Applicable Standard Observations		D						M		M	2/W		E
Total Dissolved Solids (mg/l)												3M	
Chlorophyll (micrograms/l)								M					
Un-ionized Ammonia as N (mg/l)								M					

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample
C-24 = composite sample - 24-hour

Cont = continuous sampling
DI = depth-integrated sample

O = observation

TYPES OF STATIONS

A = treatment facility influent stations
E = waste effluent stations
C = receiving water stations
P = treatment facilities perimeter stations
L = basin and/or pond levee stations

G = groundwater stations

FREQUENCY OF SAMPLING

E = each occurence

D = once each day

M = once each month

2/W = 2 days per week
5/W = 5 days per week
2/M = 2 days per month
2/Y = once in March and once in September

2H = every 2 hours

3M = every 3 months
Cont = continuous

NOTES FOR TABLE I

(1) During any day when bypassing occurs from any treatment phase(s) (Primary, Secondary, Chlorination, and Dechlorination) in the plant, the monitoring program for the effluent shall include the following in addition to the above schedule for sampling, measurement and analyses:

1. When bypassing occurs from any primary or secondary treatment unit(s), composite sample for BOD, Total suspended solids, oil and grease (influent & effluent), grab sample for settleable matter, and continuous monitoring of flow.

2. When bypassing chlorination treatment, grab sample for Coliform (Total and Fecal), and continuous monitoring of flow.

3. When bypassing dechlorination treatment, grab sample for chlorine residual (continuous or every two hours), and continuous monitoring of flow.

(2) Oil and grease sampling shall consist of 3 grab samples taken at equal intervals during the sampling day, with each grab being collected in a glass container and analyzed separately. Results shall be expressed as a weighted average of the 3 values, based upon the instantaneous flow rates at the time grab sample was analyzed.